

Part 1: Linux Command Line Basics

Using a Linux terminal (VM, WSL, or cloud instance):

- Create the following directory structure:

```
~/devops-lab/  
├── projects/  
│   ├── app1/  
│   └── app2/  
├── configs/  
└── logs/
```

- Navigate to `~/devops-lab/projects/app1/` and create a file called `README.md`
- Copy `README.md` to `app2/` directory
- List all files in `~/devops-lab/` recursively showing hidden files

Deliverable:

Screenshot of your terminal showing the commands and their output

Soution:

1. Create the following directory structure

```
[pujan@ip-10-10-1-92 devops-lab]$ tree /home/pujan/devops-lab/  
/home/pujan/devops-lab/  
├── configs  
├── logs  
└── projects  
    ├── app1  
    └── app2  
  
3 directories, 2 files
```

2. Navigate to `~/devops-lab/projects/app1/` and create a file `README.md`

```
[pujan@ip-10-10-1-92 devops-lab]$ tree /home/pujan/devops-lab/  
/home/pujan/devops-lab/  
├── configs  
├── logs  
└── projects  
    ├── app1  
│   └── README.md  
    └── app2  
  
3 directories, 3 files
```

3. Copy `README.md` to `app2/` directory

```
[pujan@ip-10-10-1-92 devops-lab]$ touch projects/app1/README.md  
[pujan@ip-10-10-1-92 devops-lab]$ mv /home/pujan/devops-lab/projects/app1/README.md /home/pujan/devops-lab/projects/app2/
```

```
[pujan@ip-10-10-1-92 devops-lab]$ tree /home/pujan/devops-lab/  
/home/pujan/devops-lab/  
├─ configs  
├─ logs  
├─ projects  
│   ├── app1  
│   └── app2  
│       └─ README.md  
  
3 directories, 3 files
```

4. List all files in ~/devops-lab/ recursively showing hidden files:

```
[pujan@ip-10-10-1-92 devops-lab]$ ls -ltaR /home/pujan/devops-lab/  
/home/pujan/devops-lab/:  
total 4  
drwxr-xr-x.  4 pujan pujan   30 Nov 18 09:48 projects  
drwxr-xr-x.  3 pujan pujan   49 Nov 18 09:45 .  
-rw-r--r--.  1 pujan pujan    0 Nov 18 09:45 configs  
-rw-r--r--.  1 pujan pujan    0 Nov 18 09:45 logs  
drwx----- 16 pujan pujan 4096 Nov 18 09:43 ..  
  
/home/pujan/devops-lab/projects:  
total 0  
drwxr-xr-x.  2 pujan pujan    6 Nov 18 09:50 app1  
drwxr-xr-x.  2 pujan pujan   23 Nov 18 09:50 app2  
drwxr-xr-x.  4 pujan pujan   30 Nov 18 09:48 .  
drwxr-xr-x.  3 pujan pujan   49 Nov 18 09:45 ..  
  
/home/pujan/devops-lab/projects/app1:  
total 0  
drwxr-xr-x.  2 pujan pujan    6 Nov 18 09:50 .  
drwxr-xr-x.  4 pujan pujan   30 Nov 18 09:48 ..  
  
/home/pujan/devops-lab/projects/app2:  
total 0  
drwxr-xr-x.  2 pujan pujan   23 Nov 18 09:50 .  
-rw-r--r--.  1 pujan pujan    0 Nov 18 09:49 README.md  
drwxr-xr-x.  4 pujan pujan   30 Nov 18 09:48 ..
```